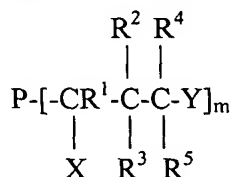


**GAMMA HYDROXY CARBAMATE COMPOUNDS
AND METHODS OF MAKING AND USING THE SAME.**

ABSTRACT

[0001] The invention provides gamma hydroxy primary carbamate functional compounds, film-forming compositions comprising such compounds and methods of making the same. The film-forming compositions disclosed herein comprise (I) a gamma hydroxy primary carbamate comprising one or more structures of the formula:



wherein X and Y are either a primary carbamate group or a hydroxyl group but are not the same, m is a number from 2 to 50, R¹, R², R³, R⁴, and R⁵ are each at least one of H, an alkyl group, a heteroatom containing group, and mixtures thereof, and P is at least one hydrocarbon based member selected from a compound, an oligomer or polymer having more than 6 carbon atoms.